



SHEET 1 OF 25

FORM PTO-1449 U.S. Department of
Commerce Patent and Trademark Office

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

1309.43669X00

SERIAL NO.

10/802,913

APPLICANT

Hiroshi SUZUKI et al.

FILING DATE

March 18, 2004

GROUP

2836

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DA IF APPROP
AA	6 6 3 6 9 3 4	10/03	Linnell			
	5 9 5 1 6 9 1	09/99	Ng et al			
	6 1 1 5 7 9 7	09/00	Kanda et al			
	6 1 7 3 3 6 0	1/01	Beardsley et al			
	6 5 5 3 4 0 8	4/03	Merrell et al			
	6 6 0 6 6 9 0	8/03	Padovano			
	6 7 7 2 3 6 5	8/04	Obara			
	2 0 1 6 2 9 4 0	8/04	Yagisawa et al			
2 0 0 4						
2 0 0 3	0 2 2 1 0 6 1	11/03	Ei-Batal			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES
AA 0 8 4 4 5 6 1	5/98	European			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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AA	6 1 0 8 7 4 8	08/00	Ofek et al			
	6 5 1 0 4 9 1	1/03	Franklin et al			
	6 6 5 1 1 3 7	11/03	Baek et al			
	6 7 0 8 2 3 2	03/04	Obara et al			
	5 5 4 6 5 5 8	8/96	Jacobson et al			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT YES
AA 1 3 1 5 0 7 4	5/03	European			

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AA	2 0 0 4	0	1	9	3	7	6	0	9/04	Matsunami et al			
	2 0 0 4	0	1	9	9	5	1	5	10/04	Penny et al			
	2 0 0 2	0	1	3	8	7	0	5	9/02	Suzuki et al			
	2 0 0 3	0	2	2	1	0	7	7	11/03	Ohno et al			
	2 0 0 4	0	0	1	0	6	6	2	1/04	Aruga			
		7	0	8	0	2	0	1	7/06	Suzuki, et al			

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AA	2 0 0 4	0	1	2	8	6	2	7		7/04	Zayas			
	2 0 0 3	0	0	9	7	6	0	7		5/03	Bessire			
	2 0 0 4	0	0	1	0	6	6	0		1/04	Konshak et al			
	2 0 0 4	0	0	7	8	7	0	7		4/04	Apperley et al			
	2 0 0 4	0	0	7	3	7	4	7		4/04	Lu			
	2 0 0 4	0	1	7	7	2	1	8		9/04	Meehan et al			

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AX	5 6 0 3 0 0 3	2/97	Akizawa et al			
	5 8 6 7 7 3 6	2/99	Jantz			
	5 8 8 4 0 9 8	3/99	Mason, Jr.			
	6 2 1 9 7 5 2	4/01	Sekido			
	6 2 2 3 2 4 9	4/01	Kato et al			
	6 5 4 9 9 7 8	5/03	Mansur et al			
	6 6 4 0 2 7 8	10/03	Nolan et al			
	6 6 8 4 2 9 5	1/04	Fujimoto et al			
	6 7 4 5 2 8 7	6/04	Fujimoto et al			
	6 2 0 1 6 9 2	3/01	Gamble et al			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT YES
AX	2 3 3 3 9 5 4	11/02	Japan			
AA	2 1 7 8 5 5 7	6/04	Japan			

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AA	6 6 2 8 5 1 3	9/03	Gallagher et al			
	6 8 3 1 8 3 9	12/04	Bovell			
	6 0 6 1 7 5 0	5/00	Beardsley et al			
	6 7 6 3 4 3 6	7/04	Gabber et al			
	6 7 9 2 4 8 6	9/04	Hanan et al			
	6 1 3 7 6 7 9	10/00	Chang			
	6 3 5 1 3 7 5	2/02	Hsieh et al			
	6 4 8 4 2 3 6	11/02	Fujimoto et al			
	6 4 8 4 2 6 9	11/02	Kopylovitz			
	6 7 2 8 9 2 2	4/04	Sundaram et al			
	5 4 7 5 8 1 4	12/95	Tomimitsu			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT : YES
AA 2 1 8 8 8 3 5	7/90	Japan			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AA	IBM Technical Disclosure Bulletin vol. 38, No. 7, July 1995 (New York), "Foreground/Background Checking of Parity in a Redundant Array of Independent Disks-5 Storage Subsystem", pp. 455-458.
	Laboratory Automation and Information Management 32, 1996, (Elsevier Science B.V.), R E Dessey, "Computer Connections", pp. 53-62.

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<i>AV</i>	6 5 0 2 1 0 8	12/02	Day, III, et al			
	6 6 5 8 5 9 2	12/03	Cohen et al			
<i>2002</i>	0 0 0 7 4 6 9	1/02	Taketa et al			
<i>2002</i>	0 0 4 0 4 1 3	4/02	Okada et al			
	6 1 5 4 8 5 0	11/00	Idleman et al			
	6 4 0 0 7 3 0	6/02	Latif, et al			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
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<i>AA</i> 2 0 0 1	1 4 2 6 5 0	5/01	Japan		

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AA	2 0 0 3	0	0	9	7	5	0	4	5/03	Oeda et al			
	2 0 0 3	0	1	1	5	4	3	7	6/03	Tomita			
	2 0 0 3	0	1	4	5	1	6	7	7/03	Tomita			
	2 0 0 3	0	1	9	6	0	0	2	10/03	Nakayama et al			
	2 0 0 3	0	1	9	6	1	4	7	10/03	Hirata et al.			
	2 0 0 3	0	2	0	4	6	7	1	10/03	Matsunami et al			

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U.S. PATENT DOCUMENTS

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AA	2 0 0 2 4 9 3 0	2/04	Nakayama et al			
	2 0 0 6 8 6 1 0	4/04	Umberger et al			
	2 0 1 0 7 3 2 5	6/04	Mori			

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DA IF APPROP
AA	2 0 0 4 6 1 1 8	11/01	Yamanashi et al			
	2 0 0 5 4 1 3 6	12/01	Ninomiya et al			
	2 0 0 5 6 5 2 7	12/01	Ninomiya et al			
	2 0 0 6 2 0 5 7	10/02	Talagala			
	2 0 0 4 1 2 0 1	2/03	Rauscher			
	2 0 0 7 2 1 5 0	9/03	Kennedy			
	2 0 0 1 1 7 5 3 4	6/04	Parry et al			
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DA IF APPROP
AA	2 0 2 2 1 0 6 1	11/03	El-Batal et al			
	2 0 0 4 1 2 7 8	2/03	Lin			
	2 0 2 6 7 5 1 6	12/04	Jibbe et al			
	2 0 0 2 7 9 0 0	2/05	Petty			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
AA	9 9 5 0 7 5 4	10/99	WO			YES

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AA	2 0 2 3 1 4 2 0	12/03	Kano et al			
	2 0 0 8 8 4 8 2	5/04	Tanzer et al			
	2 0 1 6 9 9 9 6	9/04	Paul et al			
	2 0 0 1 9 5 0 9	9/01	Aho et al			
	2 0 0 4 6 4 6 0	3/03	Inoue et al			
	2 0 1 3 9 2 6 0	7/04	Steinmetz			
	2 0 1 4 8 3 2 9	7/04	Ogasawara et al			
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AA	2 0 0 2	0	0	4	9	8	8	6	4/02	Furuya et al			
	2 0 0 2	0	1	4	4	0	5	7	10/02	Li et al			
	2 0 0 3	0	1	3	1	2	9	1	7/03	Morrison et al			
	2 0 0 3	0	1	6	7	4	3	9	9/03	Talagala et al			
	2 0 0 3	0	0	9	7	4	8	7	5/03	Rietze et al			
	2 0 0 4	0	1	1	1	4	8	5	6/04	Mimatsu et al			
	2 0 0 4	0	2	6	8	0	3	7	12/04	Buchanan, Jr. et al			
	2 0 0 4	0	2	6	8	0	6	9	12/04	Satoyama et al			
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AA	6 2 1 9 7 5 3	4/01	Richardson			
	6 7 7 2 2 8 7	8/04	Uchiyama et al			
	6 6 8 4 2 8 2	1/04	Kocis			
2 0 0 3	0 1 8 2 5 0 2	9/03	Kleiman et al			
2 0 0 2	0 0 1 9 8 9 7	2/02	Cruyningen			
2 0 0 4	0 2 4 3 3 8 6	12/04	Stolowitz et al			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT YES
AA	2 3 6 1 4 6	2/03	Japan			

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	2 0 0 4 0 1 4 8 4 6 0	7/04	Steinmetz			
	2 0 0 4 0 1 4 8 4 6 1	7/04	Steinmetz			
	2 0 0 4 0 2 3 6 9 0 8	11/04	Suzuki et al			
	2 0 0 3 0 1 1 0 3 3 0	6/03	Fujie et al			
	5 8 4 5 3 1 9	12/98	Yorimitsu			
	2 0 0 3 0 1 4 9 8 4 0	8/03	Bolt, et al			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Serial Attached SCSI and Serial ATA Compatibility, Intel, 2002, pp. 1-6.
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AA	2 0 0 2 0 1 4 4 0 4 8	10/02	Bolt, et al			
	2 0 0 2 0 1 4 7 9 4 5	10/02	Fox et al			
	2 0 0 4 0 1 5 3 6 1 4	5/04	Bitner et al			
	2 0 0 3 0 1 6 3 6 3 9	8/03	Baum			
	5 8 3 2 2 0 4	11/98	Apperley et al			
	6 2 4 0 4 8 6	5/01	Ofek et al			

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						YES
AA	5 1 5 0 9 0 9	6/93	Japan			
AA	1 0 3 0 1 7 2 0	11/98	Japan			Eng.Trans

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	6 4 4 9 7 0 9	09/02	Gates			
	6 6 8 4 2 9 5	1/04	Fujimoto et al			
	6 7 4 5 2 8 7	6/04	Fujimoto et al			
2 0 0 3	0 1 1 0 3 3 0	06/03	Fujie et al			
2 0 0 3	0 2 1 2 8 5 9	11/03	Ellis et al			
2 0 0 3	0 2 2 1 0 6 1	11/03	El-Batal et al			
2 0 0 3	0 0 4 1 2 7 8	2/03	Lin			
2 0 0 4	0 0 7 8 7 0 7	04/04	Apperley et al			
2 0 0 4	0 0 1 0 6 6 0	1/04	Konshak			
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AA	2 0 0 4 0 1 1 1 5 6 0		Takase et al			
I	2 0 0 4 0 2 6 7 5 1 6		Jibbe et al			
	2 0 0 5 0 0 2 7 9 0 0		Petty			

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AA	2 0 0 2 1 5 0 7 4 6	05/02	Japan			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AA	EMC 2-Gigabit Disk-Array Enclosure EMC Corporation (DAE2), FC and ATA Models, Hardware Reference P/N 014003048, Rev A02
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AX	2 0 0 5 0 1 1 7 4 6 8	06/05	Kano et al			
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	2 0 0 5 0 1 2 0 2 6 4	06/05	Kano et al			
	2 0 0 5 0 1 5 4 9 4 2	7/05	Kano et al			
	6 2 8 2 6 0 2	8/01	Blumenau et al			

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
0 9 3 3 0 1 8 4	12/97	Japan			YES XX

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO.	SERIAL NO.
	1309.43669X00	10/802,913
	APPLICANT Hiroshi SUZUKI et al.	
	FILING DATE March 18, 2004	GROUP 2836

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DA IF APPROPR
AA	20050216624	9/05	Deng et al	710	074	
	20020162048	10/02	Ackaret et al			
	6763409	7/04	Elliott			
	6037738	3/00	Morita et al	318	625	
	6449709	9/02	Gates			
	5822782	10/98	Humlícek et al			
	5812754	9/98	Lui et al			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT YES
AA	20010337868	12/01	Japan			XX
	20010167040	6/01	Japan			XX
	9330182	12/97	Japan			XX
	10001345	5/00	European			

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DA IF APPROPR
AA	2 0 0 6 2 3 8 7	5/02	Yatziv			
	2 0 0 6 2 4 5 4	5/02	Fung			
	2 0 1 8 9 8 1 1	10/03	Peeke et al			
	2 0 1 3 5 5 7 7	7/03	Weber et al			
	2 0 1 1 7 5 1 7	6/04	Beauchamp et al			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

ESG Product Brief EMC, March 2003, CLARiION with ATA, pp. 1-2.
EXAMINER
DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

**FORM PTO-1449 U.S. Department of
Commerce Patent and Trademark Office**

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

1309.43669X00

SERIAL NO.

10/802,913

APPLICANT

Hiroshi SUZUKI et al.

FILING DATE

March 18, 2004

GROUP

2836

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DA IF APPROPR
AA 2 0 0 1	0 0 1 4 9 5 6	8/01	Nagata et al			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT YES

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AA	EMC CLARiiON Backup Storage Solutions Back-up-to-Disk Guide with LEGATO Networker DiskBackup Option (DBO), Engineering White Paper, 4/8/2003, pp. 1-28.
I	EMC CLARiiON Backup Storage Solutions Backup-to-disk Guide with Computer Associates, BrightStor ARCserve Backup, Engineering White Paper, 4/16/2003, pp. 1-24.
	EMC CLARiiON Backup Storage Solutions Backup-to-Disk Guide with CommVault Galaxy, Engineering White Paper, 3/3/2003, pp. 1-26.
	EMC CLARiiON Backup Storage Solutions Backup-to-Disk Guide: An Overview, Engineering White Paper, 3/3/2003, pp. 1-10.
	EMC CLARiiON Backup Storage Solutions Backup-to-Disk Guide with Computer Associates BrightStor Enterprise Backup, Engineering White Paper, 4/16/2003, pp. 1-23.

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(Form PTO-1449 [6-4])

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 1309.43669X00	SERIAL NO. 10/802,913			
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT H. Suzuki, et al				
				FILING DATE March 18, 2004		GROUP 2836		
U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT	DATE	NAME	CLASS	SUBCLASS	FILING DATE (If Appropriate)	
AA	AA	6,763,409	07/13/04	Elliott, Stephen J.				
	AB	5,812,754	09/22/98	Liu et al				
	AC	5,432,046	06/06/95	Nunnelley et al				
	AD	5,848,282	12/08/98	Kang et al				
	AE	2002/ 062454	05/23/02	Fung, Henry T.				
AA	AF	5,805,788	09/08/98	Johnson				
AA	AG	2004/ 0221101	11/04/04	Voorhees et al				
	AH							
	AI							
	AJ							
	AK							
FOREIGN PATENT DOCUMENTS								
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	AP						<input type="checkbox"/>	<input type="checkbox"/>
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)								
	AR	AA	Judd, Ian, "Device Services Interface", Online, June 19, 1996, pp. 1-8.					
	AS		"Veritas Volume Manager Storage Administrator 3.2, Administrator's Guide", Veritas Software Corporation, Online, July, 2001, pp. 1-184.					
	AT	AA	Synetic Inc., SyneRAID -800SA, SCSI/Fibre-toSATA RAID Subsystem product information, available at: http://www.synetic.net/Synetic-Products/SyneRAID-Units/SyneRAID-800SATA/SyneRAID-800SA.html					
		AA	"SATA Disk System and Expansion of Unit offer 3.5 TB storage", Product News Network, Nov. 1, 2004.					
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LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT H. Suzuki, et al			
				FILING DATE March 18, 2004		GROUP 2836	
U.S. PATENT DOCUMENTS							
* EXAMINER INITIAL		DOCUMENT	DATE	NAME	CLASS	SUBCLASS	FILING DATE (If Appropriate)
AA	2002/ 0069317	06/06/02	Chow et al				
AB	2002/ 0069334	6/06/02	Hsia et al				
AC	2003/ 0031187	02/13/03	Heffernan et al				
AD	2003/ 00221061	11/27/03	El-Batal et al				
AE	2004/ 0010660	01/15/04	Konshak et al				
AF	2004/ 0034731	02/19/04	Sivertsen				
AG	2004/ 0193791	09/30/04	Felton et al				
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AR	AA	SGI InfiniteStorage TP9300S Storage Array, Data Sheet, available at: http://www.sgi.com/pdfs/3643.pdf					
AS	AX	Adaptec FS4500 Fibre to SATA RAID, Data Sheet, available at: http://www.sunstarco.com/PDF%20Files/Adaptec%20FS4500%20SATA.pdf					
AT							
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LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT H. SUZUKI et al				
				FILING DATE March 18, 2004		GROUP 2836		
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AM	AA	2005/ 0138154	06/23/05	Seto				
	AB	2005/ 0097132	05/05/05	Cochran et al				
	AC	2004/ 0148460	07/29/04	Steinmetz et al				
	AD	6,834,326	12/21/04	Wang et al				
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	AF							
	AG							
	AH							
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	AJ							
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	AO						<input type="checkbox"/>	<input type="checkbox"/>
	AP						<input type="checkbox"/>	<input type="checkbox"/>
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	AR	AM	Infotrend EonStor A16F-R1211/S1211 FC-to-SATA RAID Subsystem product information, available at: http://www.infotrend.com/2_product/a16f-r(s)1211.asp					
	AS							
	AT							
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Ad. [Signature]				3/6/07				

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